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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTOR	NEY DOCKET NO.
09/273,	.468 03/2	2/99 VOLOKH	V	P-68422-US

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EXAMINER

AQUILINO & WELSH 2341 JEFFERSON DAVIS HIGHWAY SUITE 112 ARLINGTON VA 22202

TSAI,H

ART UNIT

PAPER NUMBER

3722

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DATE MAILED:

02/11/00

Please find below and/or attached an Office communication concerning this application or pr c eding.

Commissioner of Patents and Trademarks

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Office Action Summary

Application No. 09/273,468

A, cant(s)

Volokh

Examiner

Henry W. H. Tsai

Group Art Unit 3722



X Responsive to communication(s) filed on Mar 22, 1999	·	
☐ This action is FINAL .		
☐ Since this application is in condition for allowance except in accordance with the practice under <i>Ex parte Quayle</i> , 19	for formal matters, prosecution as to the merits is closed 935 C.D. 11; 453 O.G. 213.	
A shortened statutory period for response to this action is se is longer, from the mailing date of this communication. Failu application to become abandoned. (35 U.S.C. § 133). Extendig 37 CFR 1.136(a).	re to respond within the period for response will cause the	
Disposition of Claims		
	is/are pending in the application.	
Of the above, claim(s)	is/are withdrawn from consideration.	
Claim(s)		
Claim(s)		
Claims are subject to restriction or election requirement		
Application Papers		
区 See the attached Notice of Draftsperson's Patent Draw	ving Review, PTO-948.	
☐ The drawing(s) filed on is/are obj	ected to by the Examiner.	
☐ The proposed drawing correction, filed on		
X The specification is objected to by the Examiner.		
☐ The oath or declaration is objected to by the Examiner	•	
Priority under 35 U.S.C. § 119		
X Acknowledgement is made of a claim for foreign prior	ity under 35 U.S.C. § 119(a)-(d).	
	s of the priority documents have been	
⊠ received.		
received in Application No. (Series Code/Serial N	Number)	
\square received in this national stage application from t	the International Bureau (PCT Rule 17.2(a)).	
*Certified copies not received:		
☐ Acknowledgement is made of a claim for domestic pri	ority under 35 U.S.C. § 119(e).	
Attachment(s)		
X Notice of References Cited, PTO-892		
☐ Information Disclosure Statement(s), PTO-1449, Paper	r No(s)	
☐ Interview Summary, PTO-413		
X Notice of Draftsperson's Patent Drawing Review, PTO	-948	
☐ Notice of Informal Patent Application, PTO-152		
SEE OFFICE ACTION O	N THE FOLLOWING PAGES	

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DETAILED ACTION

Claim Objections

1. Claim 4 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Note in claim 4, the limitation of "the second section is concave" is already described in claim 1, lines 3-4.

Specification

2. The disclosure is objected to because of the following informalities:

at page 7, line 15, after "second", --section-- should be inserted; and

at page 8, line 15, after "first", --section-- should be inserted.

Appropriate correction is required.

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Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claim 6 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Note in claim 6, "the milling cutter being any one of the group including an end mills of HSS, Solid Carbide, <u>Cermetsa</u> and Ceramics" should be described in the specification.

5. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 2, "the cutting edge" lacks proper antecedent basis.

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In claim 2, line 1, "the length"; and line 2, "the cutter center" lack proper antecedent basis.

In claim 2, it is not clear what is meant by "the length..., as measured..." since whole claim is not understandable.

In claim 4, as set forth above, the limitation of "the second section is concave" is already described in claim 1, lines 3-4. It is not clear what the further limitation of the claim provides.

In claim 5, it is not clear what is meant by "the meeting point...forming an angle". How can a <u>point</u> form an <u>angle</u>?

In claim 6, it is not clear what is meant by "a group including an end mill". Note a group should include more than one member.

In claim 6, line 2, it is not clear what is meant by "Cermetsa" since it was not defined.

Applicant is required to review the claims and correct all language which does not comply with 35 U.S.C. § 112, second paragraph.

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Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-6, as best understood, are rejected under 35 U.S.C. 102(b) as being anticipated by the French Patent No. 1.190.274(BR'274).

BR'274 discloses the claimed invention, as shown in Fig. 4, comprising: each tooth having a tooth face comprising at least two sections, a first section nearest the cutting edge(F) having a convex form, and a second section in a concave form(bear the center G).

BR'274 also discloses a concave chip-breaking section(N, or P in Fig. 4) between the first section and the second section having the first section and the concave section forming an angle.

Note inherently, BR'274'a device is any one of the group including end mills of HSS, Solid Carbide, Cermet and Ceramics.

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Prior Art References

8. The prior art references listed in the attached PTO-892, but not used in a rejection of the claims, are cited for their device structure.

Contact Information

- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Tsai whose telephone number is (703) 308-7600. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner supervisor, A. L. Pitts can be reached on (703) 308-2159. The fax number for TC 3700 is (703) 305-3579. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 3700 receptionist whose telephone number is (703) 308-1148.
- 10. In order to reduce pendency and avoid potential delays,
 Group 3700 is encouraging FAXing of responses to Office actions
 directly into the Group at (703)305-3579. This practice may be
 used for filing papers not requiring a fee. It may also be used
 for filing papers which require a fee by applicants who authorize

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charges to a PTO deposit account. Please identify the examiner and art unit at the top of your cover sheet. Papers submitted via FAX into Group 3700 will be promptly forward to the examiner.

Henry W. H. Tsai

Patent Examiner Art Unit 3722 February 9, 2000